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APPLICATION NO.		FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
10/535,404		05/18/2005	Arnaud Favier	123956	123956 5998	
25944	7590	09/13/2006		EXAM	EXAMINER	
OLIFF &		GE, PLC	BERNSHTEYN, MICHAEL			
P.O. BOX 19928 ALEXANDRIA, VA 22320				ART UNIT	PAPER NUMBER	
				1713		
			,	DATE MAILED: 09/13/200	DATE MAILED: 09/13/2006	

Please find below and/or attached an Office communication concerning this application or proceeding.

ye State	and the second s			h
		Application No.	Applicant(s)	
		10/535,404	FAVIER ET AL.	
	Office Action Summary	Examiner	Art Unit	
		Michael Bernshteyn	1713	
	The MAILING DATE of this communication app	pears on the cover sheet wi	th the correspondence addres	s
Period fo	• •	V 10 0ET TO EVOIDE • M	ONTHAN OR THERMA	41/0
WHI(- Exte after - If NO - Failu Any	ORTENED STATUTORY PERIOD FOR REPL' CHEVER IS LONGER, FROM THE MAILING D. nsions of time may be available under the provisions of 37 CFR 1.1 SIX (6) MONTHS from the mailing date of this communication. O prejod for reply is specified above, the maximum statutory period or to reply within the set or extended period for reply will, by statute reply received by the Office later than three months after the mailing ed patent term adjustment. See 37 CFR 1.704(b).	ATE OF THIS COMMUNIO 36(a). In no event, however, may a r will apply and will expire SIX (6) MON e, cause the application to become AE	CATION. eply be timely filed THS from the mailing date of this commu. BANDONED (35 U.S.C. § 133).	
Status			•	
1)⊠	Responsive to communication(s) filed on 27 Ju	une 2006.		
•		action is non-final.		
3)[Since this application is in condition for allowa	nce except for formal matt	ers, prosecution as to the me	rits is
	closed in accordance with the practice under E	Ex parte Quayle, 1935 C.D). 11, 453 O.G. 213.	
Disposit	ion of Claims			
4)⊠	Claim(s) 16-30 is/are pending in the applicatio	n.		
	4a) Of the above claim(s) is/are withdra	wn from consideration.		
5)🖂	Claim(s) 16-28 is/are allowed.			
•	Claim(s) 29 and 30 is/are rejected.			
•	Claim(s) is/are objected to.			
8)	Claim(s) are subject to restriction and/o	or election requirement.		
Applicat	ion Papers			
9)	The specification is objected to by the Examine	er.		
10)⊠	The drawing(s) filed on 18 May 2005 is/are: a)	⊠ accepted or b)□ object	cted to by the Examiner.	
	Applicant may not request that any objection to the	drawing(s) be held in abeyar	nce. See 37 CFR 1.85(a).	
	Replacement drawing sheet(s) including the correct	tion is required if the drawing	(s) is objected to. See 37 CFR 1	.121(d).
11)	The oath or declaration is objected to by the Ex	xaminer. Note the attached	d Office Action or form PTO-1	52.
Priority	under 35 U.S.C. § 119			
12)⊠	Acknowledgment is made of a claim for foreign	priority under 35 U.S.C. §	§ 119(a)-(d) or (f).	
a)				
	1. Certified copies of the priority document	ts have been received.		
	2. Certified copies of the priority document	ts have been received in A	application No	
	3. Copies of the certified copies of the prior		received in this National Sta	ge
	application from the International Burea			
* (See the attached detailed Office action for a list	of the certified copies not	received.	
Attachme	• •	. □	O	
- =	ce of References Cited (PTO-892) ce of Draftsperson's Patent Drawing Review (PTO-948)		Summary (PTO-413) s)/Mail Date	
3) Info	rmation Disclosure Statement(s) (PTO/SB/08) er No(s)/Mail Date		nformal Patent Application	

U.S. Patent and Trademark Office PTOL-326 (Rev. 08-06) Application/Control Number: 10/535,404

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DETAILED ACTION

1. This Office Action follows a response filed on June 27, 2006. Applicants have amended claims 16 and 29.

2. Claims 16-30 are pending.

Claim Rejections - 35 USC § 102

- 3. The test of this section of Title 35 U.S.C. not included in this action can be found in a prior Office Action.
- 4. Claim 29 is rejected under 35 U.S.C. 102(e) as being anticipated by Klaerner et al. (U.S. Patent 6,716,948), for the rationale recited in paragraph 6 of Office Action dated on April 5, 2006.

Claim Rejections - 35 USC § 103

- 5. The test of this section of Title 35 U.S.C. not included in this action can be found in a prior Office Action.
- 6. Claim 30 is rejected under 35 U.S.C. 103(a) as being unpatentable over Klaerner et al. (U.S. Patent 6,716,948) in view of Takaki et al. (US Patent 6,359,093), for the rationale recited in paragraph 7 of Office Action dated on April 5, 2006.

Allowable Subject Matter

7. Claims 16-28 are allowed.

The present claims are allowable over the closest reference: Klaerner et al. (U.S. 6,716,948).

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Klaerner discloses polymers having controlled architectures, controlled free-radical polymerization methods for preparing such polymers, separation media prepared from such polymers, and separation applications for such media. Klaerner discloses, more specifically, non-linear polyacrylamidic polymers having useful properties, such as controlled weight-average molecular weights, narrow polydispersity indices, flowenabling viscosities, and water- or aqueous medium-solubility or dispersability, and to flowable separation media prepared from such polymers for use in capillary electrophoresis (col.1, lines 29-42).

Klaerner dose not disclose or suggests all the limitations of instant claim 1, including using an organosulfur reversible chain transfer agent, and simultaneously achieving the conversion of greater than 75% and polymerization time of less than 8 h keeping the claimed ranges of number-average molecular weight and a polydispersity index.

Response to Arguments

- 8. In view of Applicants amendments of the claims 16 and 29, the rejection of the above claims under 35 U.S.C. 112, second paragraph is withdrawn.
- 9. Applicants traverse the rejection of claim 29 under 35 U.S.C. 102(e) as being anticipated by Klaerner et al. (U.S. Patent 6,716,948) and the rejection of claim 30 under 35 U.S.C. 103(a) as being unpatentable over Klaerner et al. (U.S. Patent 6,716,948) in view of Takaki et al. (US Patent 6,359,093). Applicant's arguments have been fully considered but they are not persuasive.

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10. Applicants contend that an aspect of the claimed invention is that the polymer product has at least the following two features:

- a number-average molar weight of greater than or equal to 100,000 g/mol;
- polydispersity index of less than 1.2 for number-average molar weight less than 200,000 g/mol and less than 1.4 for number-average molar weight greater than 200,000 g/mol.

However, the combination of at least these two polymer properties is nowhere disclosed by Klaerner.

Applicants acknowledge that Klaerner discloses broad property ranges for its polymer. Thus, Klaerner discloses a polymer a polymer having a weight-average molecular weight of at least about 75,000, and a polydispersity index of not more than about 2.0 (col. 15, lines 33-41). Accordingly, the disclosure of Klaerner converts to polymers having a number-average mollecular weight of at least 37,000 with a polydispersity index of not more than about 2.0. However, Klaerner's polymers having a number-average molecular weight of at least about 37,500 with a polydispersirt index of not more than about 2.0, is vastly different from the claimed polymer having number-average molecular (molar) weight of greater than or equal to 100,000 and a polydispersity index of less than 1.2 or 1.4, depending upon the specific number-average molecular (molar) weight range, nor the instantly claimed specific number-average molecular (molar) weight range, nor the instantly claimed specific polydispersity index ranges (pages 6-7).

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11. In response to applicant's arguments it is worth to mention that Klaerner discloses the polymer comprises acrylamide-based repeat units, is at least partially water- or aqueous medium-soluble or water- or aqueous medium-dispersible, has a weight-average molecular weight at least about 75,000 and has a polydispersity index of not more than about 2.0. Hence, this embodiment includes linear and non-linear polymers of higher molecular weight that have a carefully controlled chain lengths and/or architecture--therefore providing a narrower range of hydrodynamic volume (col. 15, lines 33-41).

It is noted that the limitation "weight-average molecular weight at least about 75,000" includes the polymers with weight-average molecular weight of at least 75,000 and number-average molecular weight of at least about 37,500, including all the polymers of instant claims 29 and 30 having number-average molecular weight of at least 100,000. Accordingly, the limitation "polydispersity index of not more than about 2.0" includes the instantly claimed range for specific polydispersity index within 1.2-1.4.

- 12. In the light of the discussion above, the rejection of claims 29 and 30 has not been withdrawn. The rejection remains in force.
- 13. **THIS ACTION IS MADE FINAL.** Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the

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shortened statutory period will expire on the date the advisory action is mailed, and any

extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of

the advisory action. In no event, however, will the statutory period for reply expire later

than SIX MONTHS from the mailing date of this final action.

Conclusion

Any inquiry concerning this communication or earlier communications from the

examiner should be directed to Michael Bernshteyn whose telephone number is 571-

272-2411. The examiner can normally be reached on M-F 8-5:30.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's

supervisor, David Wu can be reached on 571-272-1114. The fax phone number for the

organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the

Patent Application Information Retrieval (PAIR) system. Status information for

published applications may be obtained from either Private PAIR or Public PAIR.

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For more information about the PAIR system, see http://pair-direct.uspto.gov. Should

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Business Center (EBC) at 866-217-9197 (toll-free).

Michael Bernshteyn Patent Examiner Art Unit 1713

MB 09/11/2006

LING-SUI CHOI
PRIMARY EXAMINER

Light Chin'

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